## WE CLAIM:

- A method for controlling a brake motor, the method comprising: receiving brake motor information;
- 5 determining a first brake motor voltage value and a brake motor current value based on the motor information when the brake motor is active:

determining a brake motor resistance value based on the first brake motor voltage value and the brake motor current value;

determining a brake motor temperature value based on the determined

10 brake motor resistance value; and

producing a brake motor control signal based on the determined brake motor temperature value.

- 2. The method of claim 1, further comprising:
- 15 determining a second brake motor voltage value when the brake motor is inactive; and

producing a motor diagnostic voltage value based on the determined second brake motor voltage value.

- The method of claim 1, wherein the brake motor is selected from the group consisting of: a multi-phase brake motor and a DC brush type motor.
  - The method of claim 1, wherein determining the first brake motor voltage value comprises:
- 25 determining a first and a second active phase brake motor voltage values of the brake motor; and

determining an absolute value of the difference of the first and the second active phase brake motor voltage values.

- The method of claim 1, wherein the brake motor current value is selected from the group consisting of: link current information and motor current information.
- The method of claim 1, wherein determining the brake motor temperature value comprises:

comparing the determined brake motor resistance value to a database; identifying the brake motor temperature value associated with the brake motor resistance value; and

10 receiving the brake motor temperature value from the database.

- 7. The method of claim 6, wherein the database is a lookup table.
- The method of claim 6, wherein the database includes at least one value
   derived from a known motor resistance at a single temperature.
- A computer readable medium storing a computer program comprising:
   computer readable code for determining a first brake motor voltage value
   and a brake motor current value based on motor information when a brake motor is

computer readable code for determining a brake motor resistance value based on the first brake motor voltage value and the brake motor current value; computer readable code for determining a brake motor temperature value based on the determined brake motor resistance value; and

25 computer readable code for producing a brake motor control signal based on the determined brake motor temperature value.

- The computer readable medium of claim 9, further comprising:
   computer readable code for determining a second brake motor voltage
   value when the brake motor is inactive; and
- computer readable code for producing a motor diagnostic voltage value based on the determined second brake motor voltage value.
- 11. The computer readable medium of claim 9, wherein the brake motor is selected from the group consisting of: a multi-phase brake motor and a DC brush type motor.
  - 12. The computer readable medium of claim 9, wherein the computer readable code for determining the first brake motor voltage value comprises:

computer readable code for determining a first and a second active phase

15 brake motor voltage values of brake motor; and

computer readable code for determining an absolute value of the difference of the first and the second active phase brake motor voltage values.

- 13. The computer readable medium of claim 9, wherein the brake motor current value is selected from the group consisting of: link current information and motor current information.
  - 14. The computer readable medium of claim 9, wherein the computer readable code for determining the brake motor temperature value comprises:
- 25 computer readable code for comparing the determined brake motor resistance value to a database;
  - computer readable code for identifying the brake motor temperature value associated with the brake motor resistance value; and
- computer readable code for receiving the brake motor temperature value
- 30 from the database.

5

10

- The computer readable medium of claim 14, wherein the database is a lookup table.
- 5 16. The computer readable medium of claim 14, wherein the database includes at least one value derived from a known motor resistance at a single temperature.
- 17. A system for controlling brake motor, the system comprising:
   means for receiving brake motor information;
   means for determining a first brake motor voltage value and a brake motor

current value based on the motor information when the brake motor is active;

means for determining a brake motor resistance value based on the first brake motor voltage value and the brake motor current value;

means for determining a brake motor temperature value based on the determined brake motor resistance value; and

15

means for producing a brake motor control signal based on the determined brake motor temperature value.